

FIG. 1

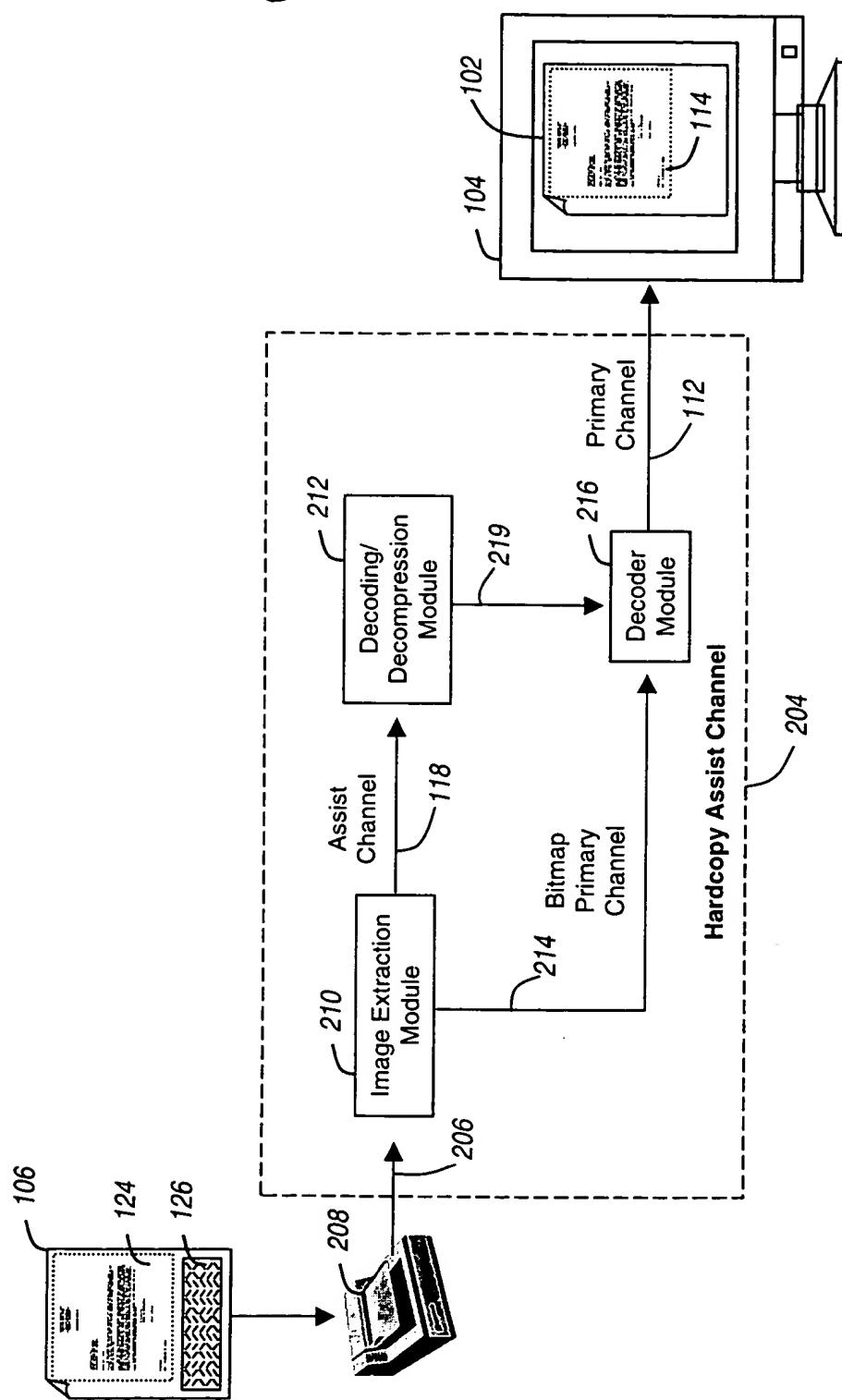


FIG. 2

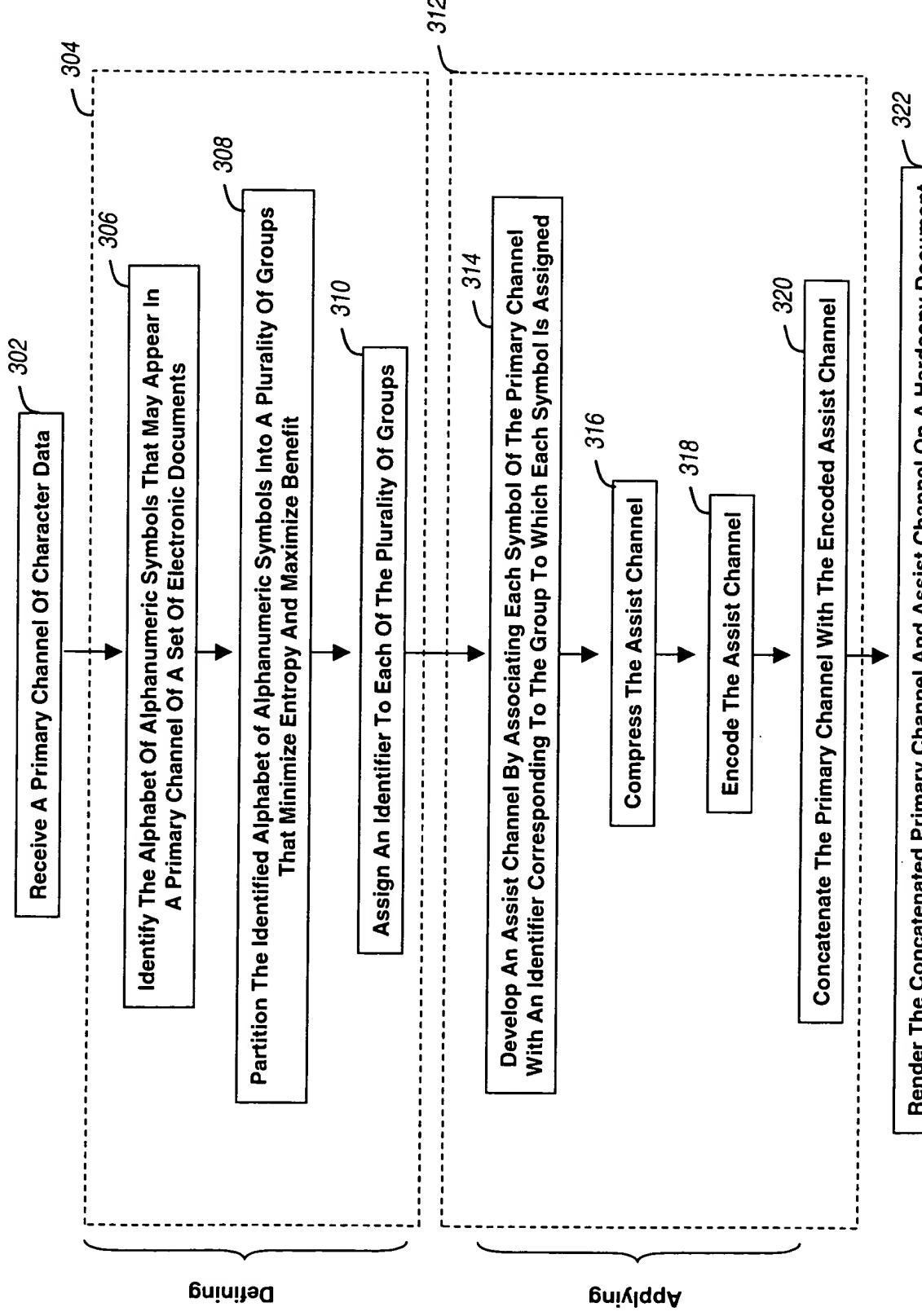
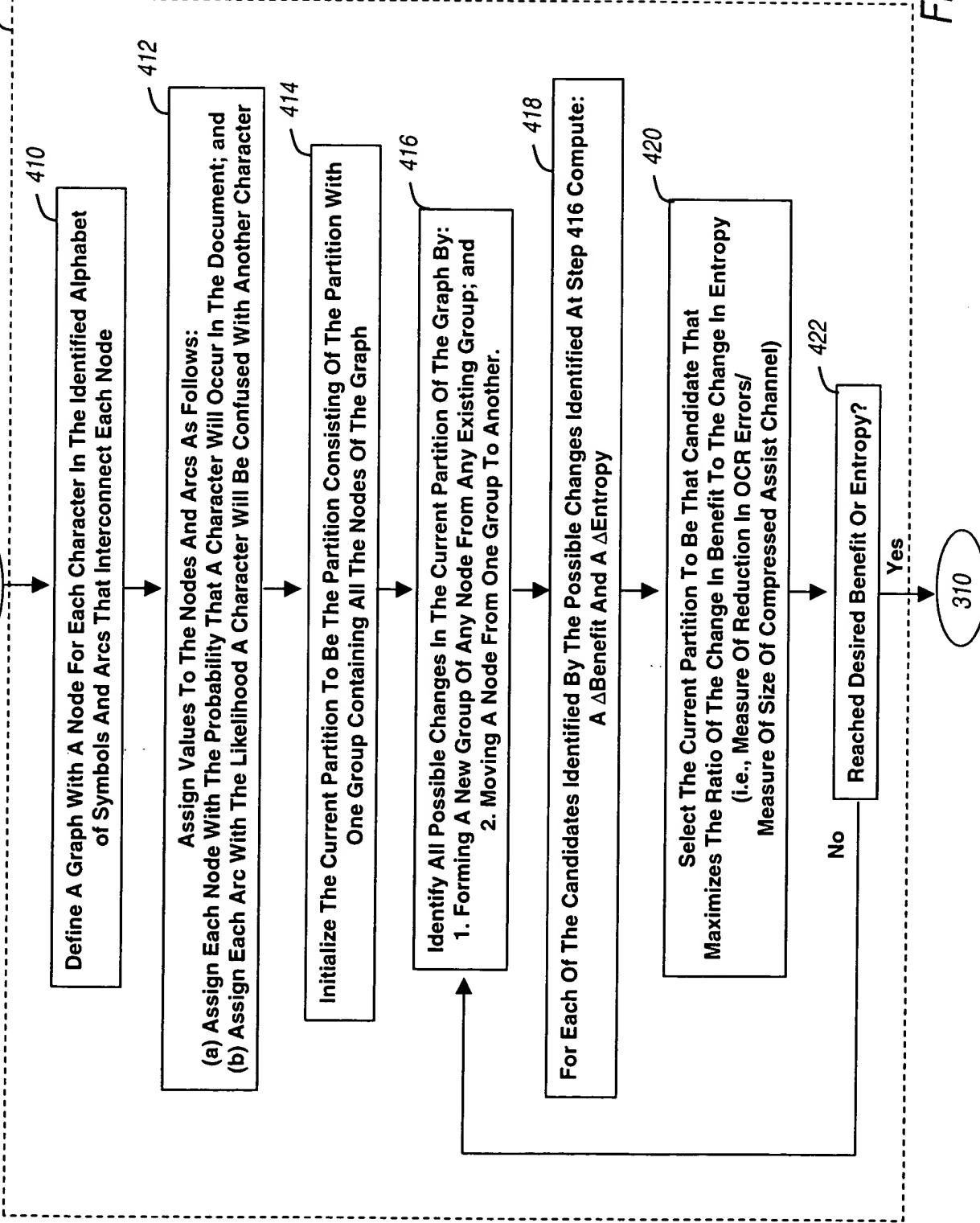


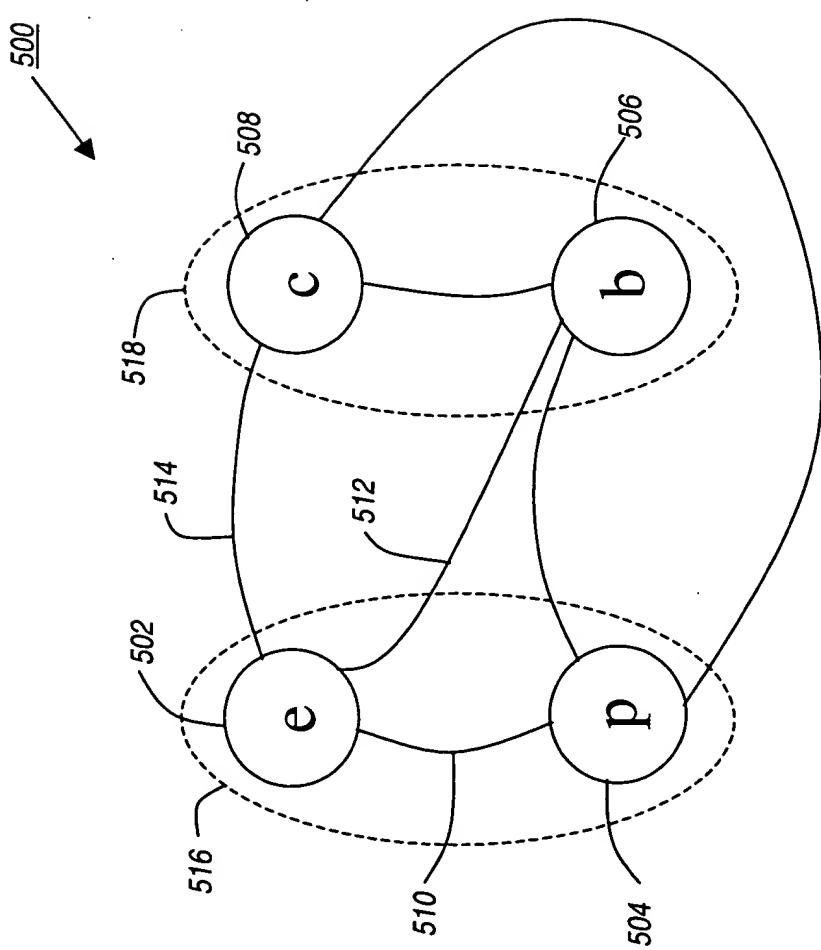
FIG. 3

308



F/G. 4

FIG. 5



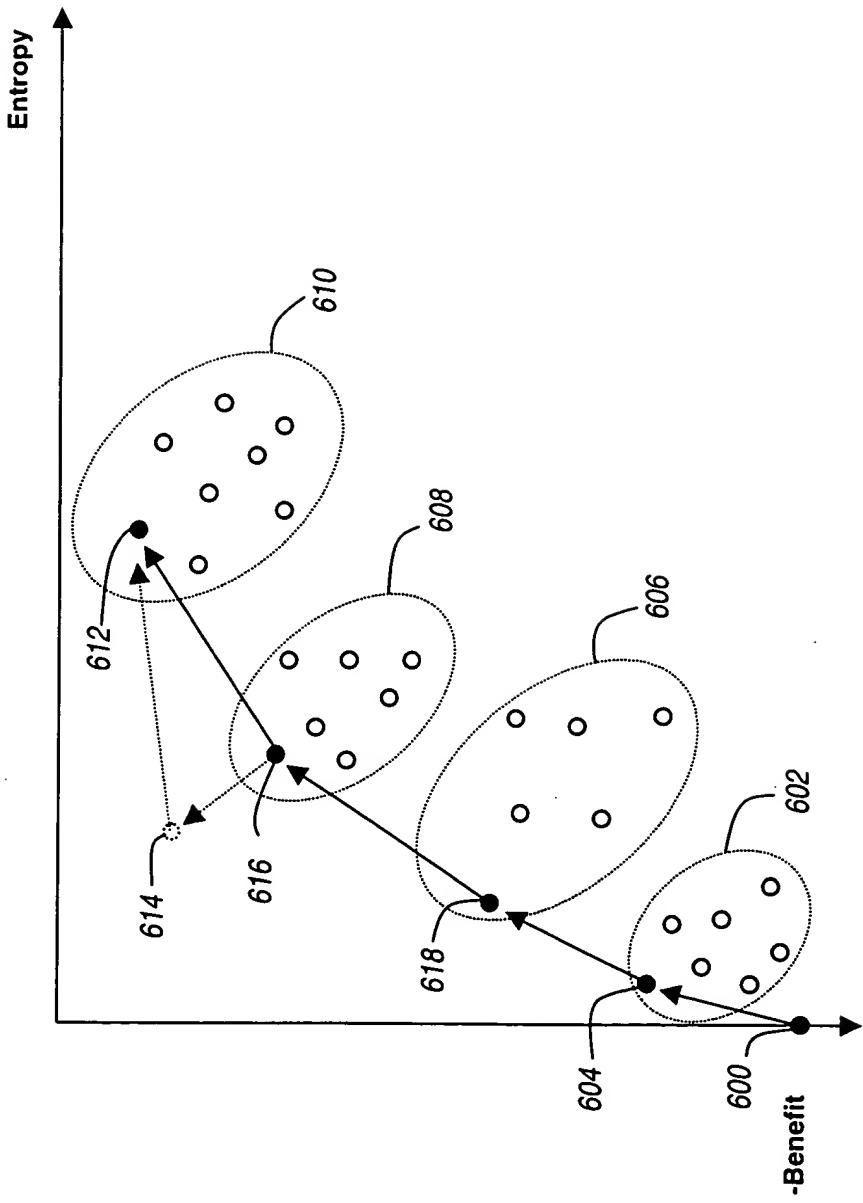


FIG. 6

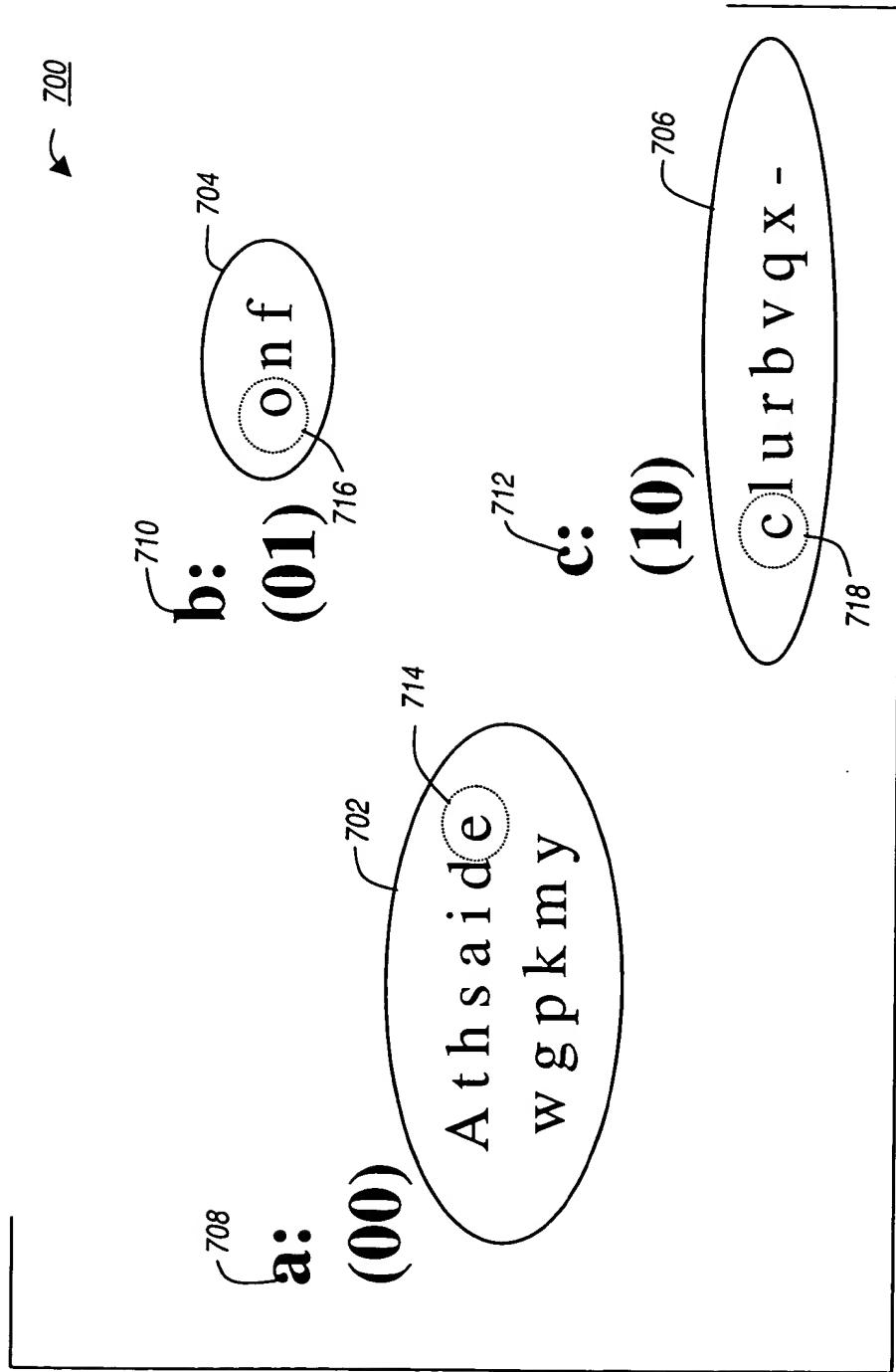


FIG. 7

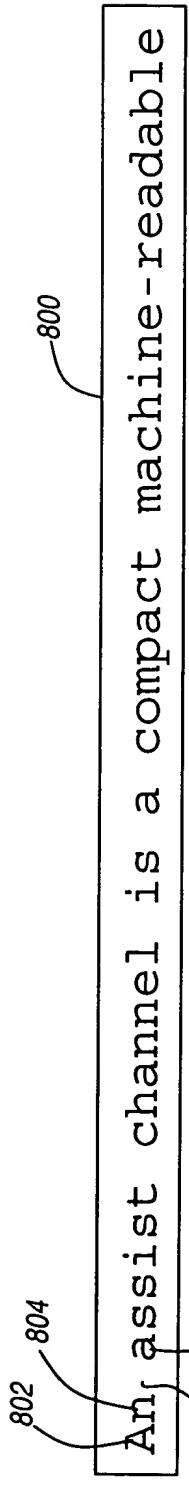


FIG. 8

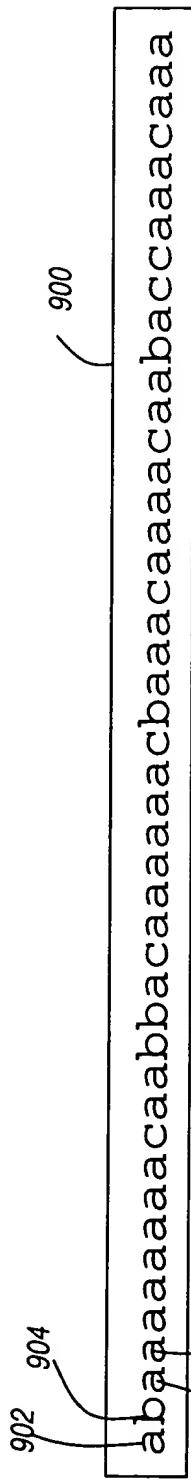


FIG. 9

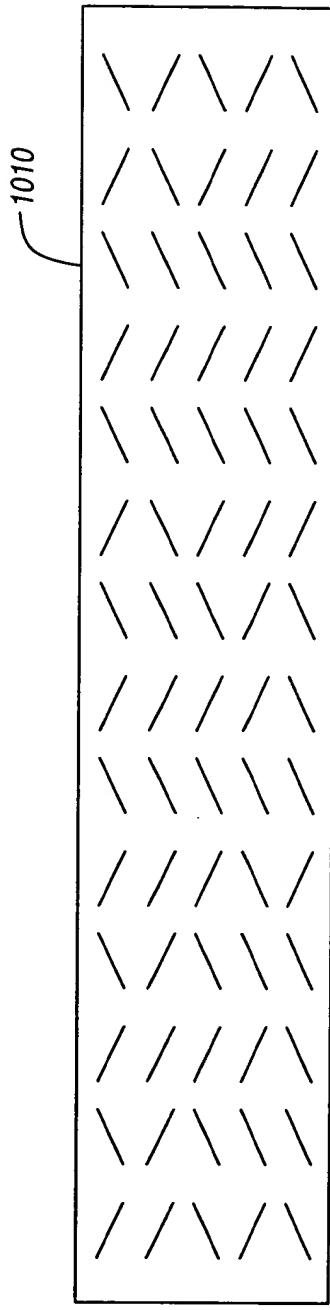


FIG. 10

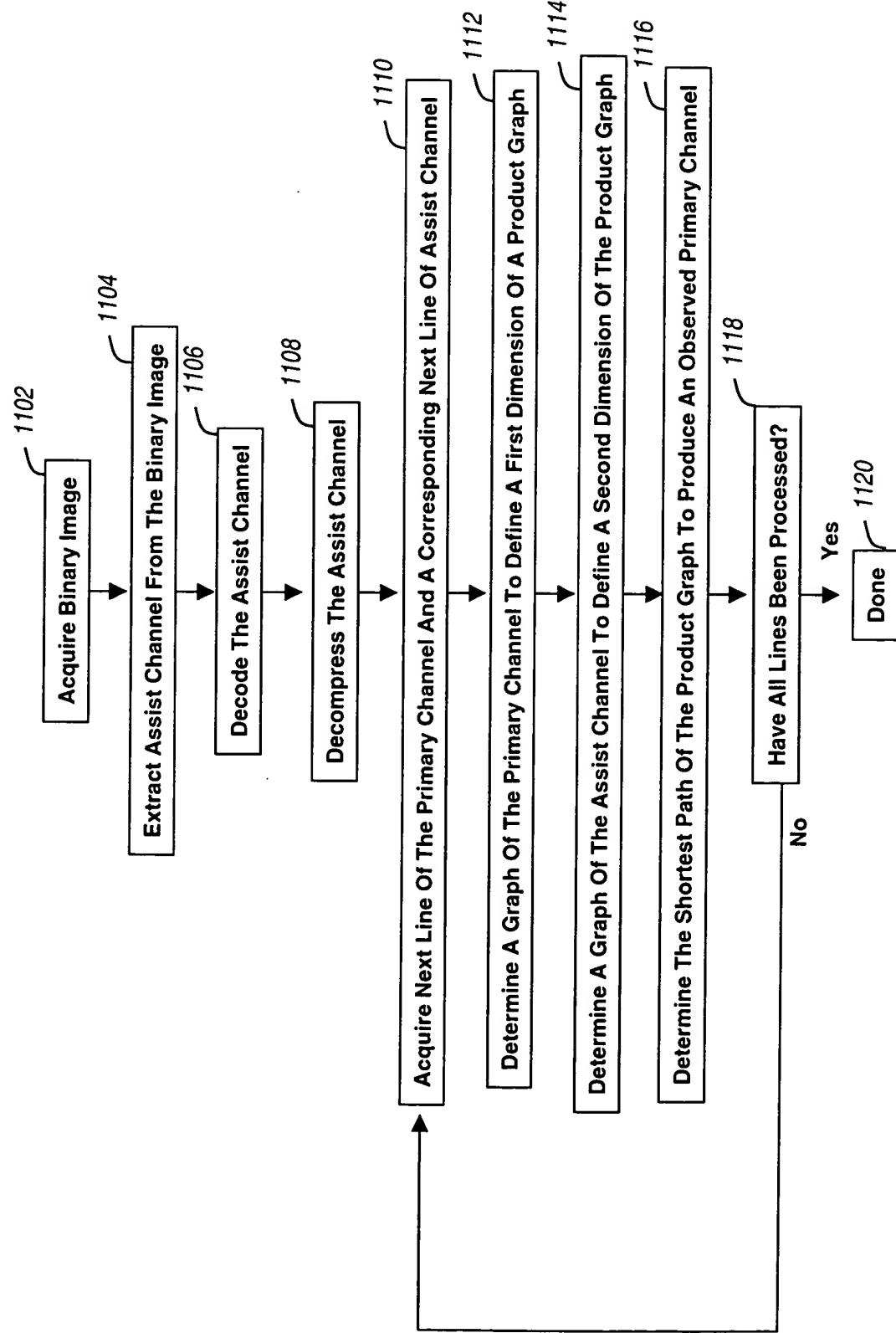


FIG. 11

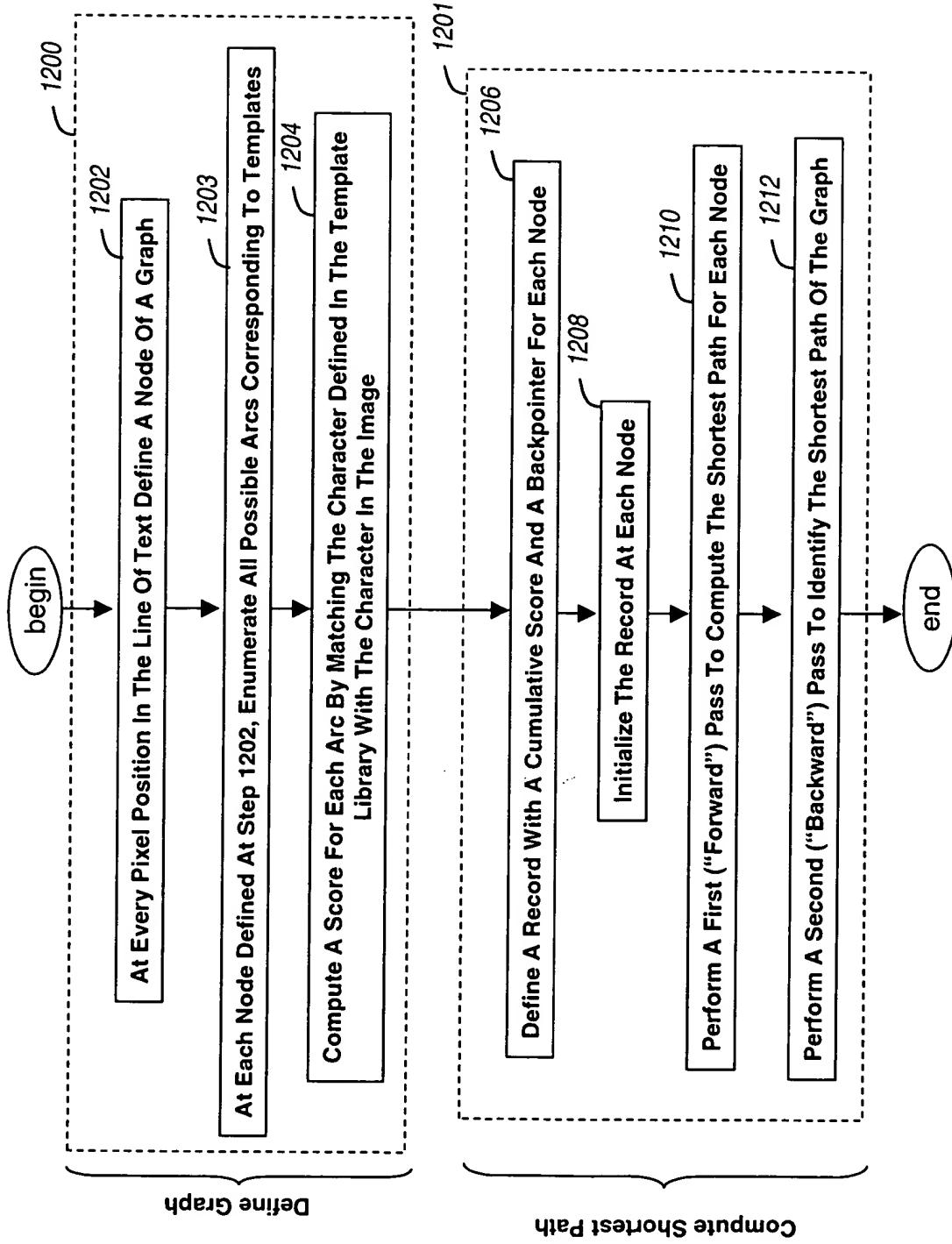


FIG. 12

FIG. 13

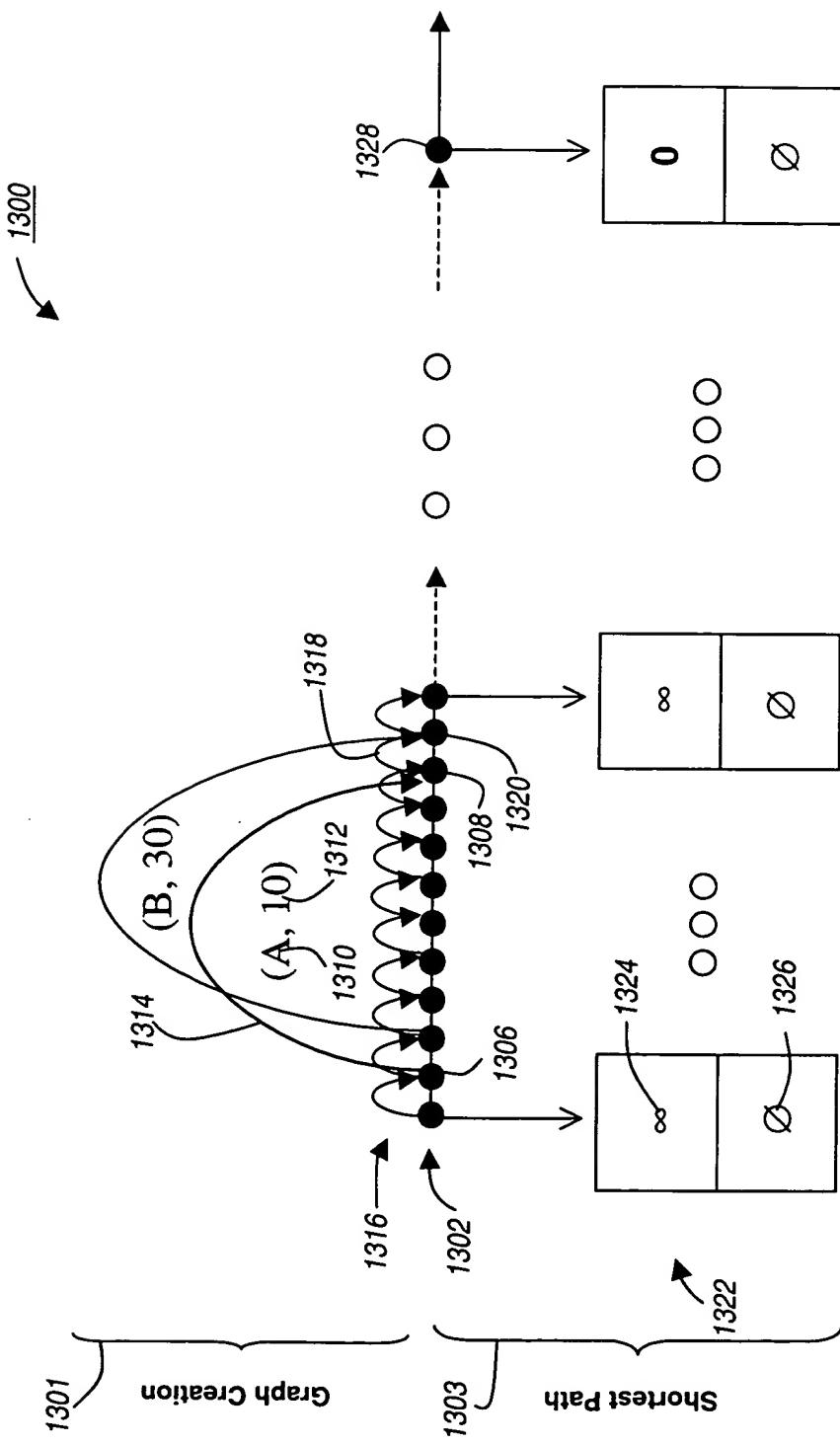
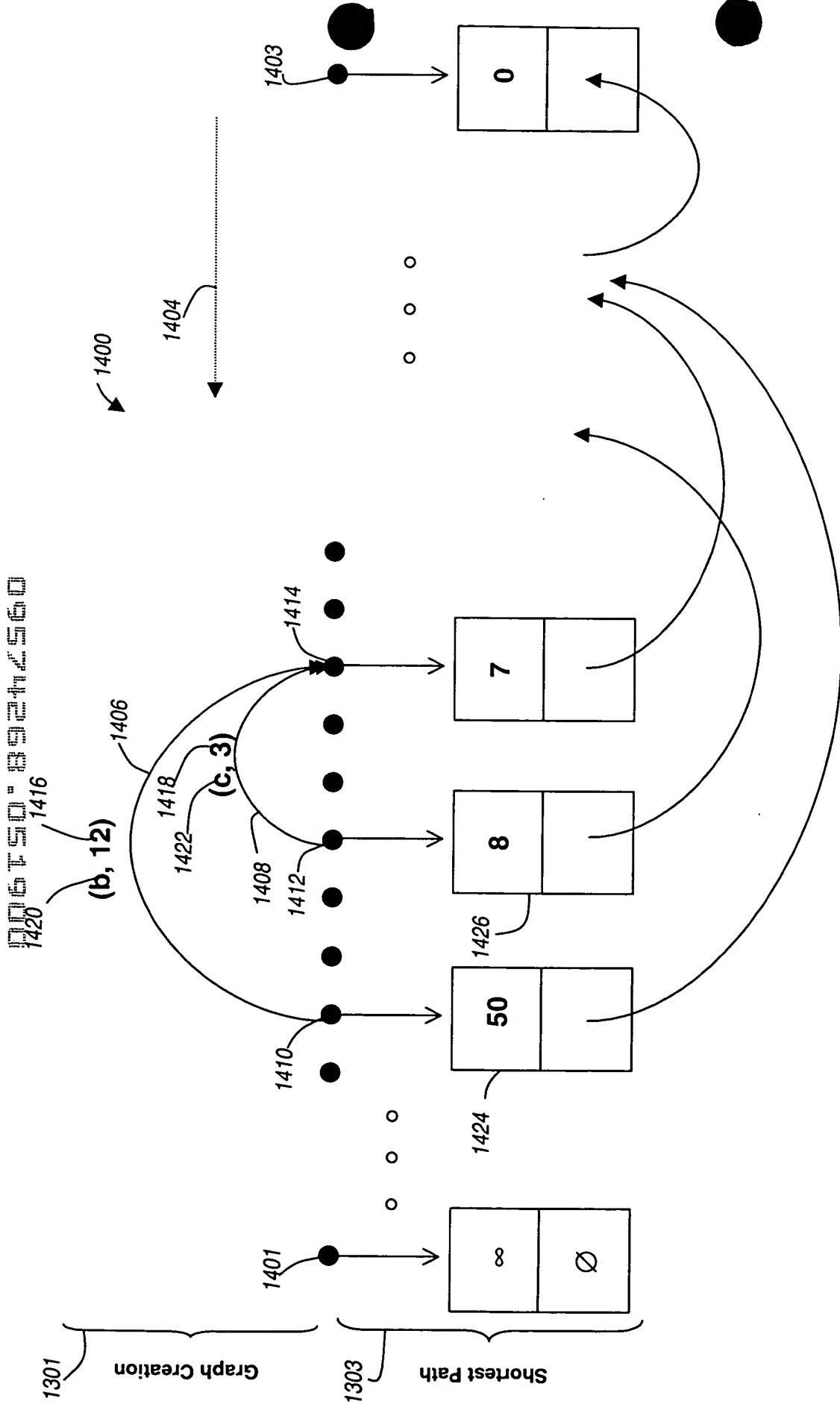


FIG. 14



□□□□□□□□□□□□□□□□□□

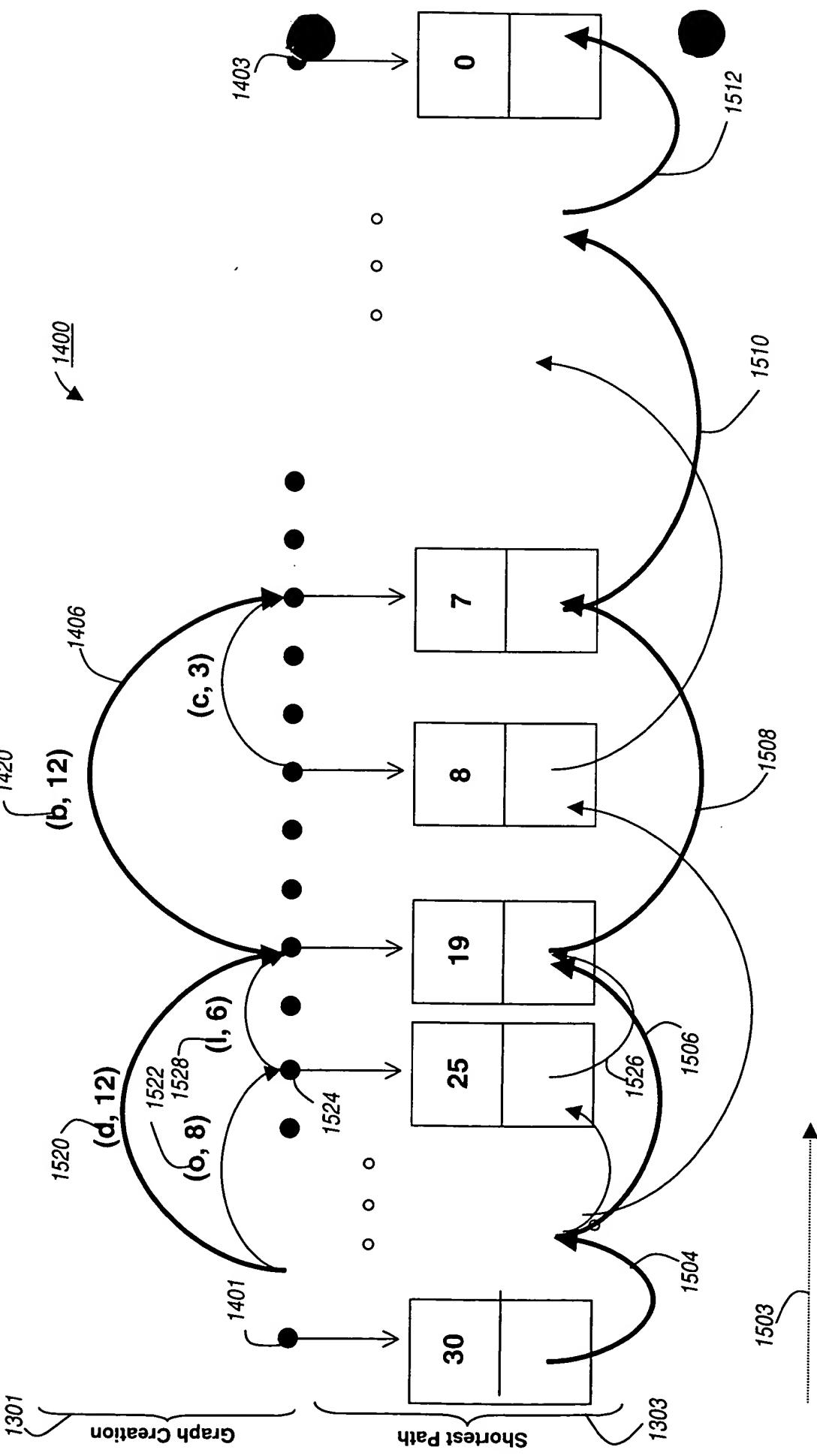
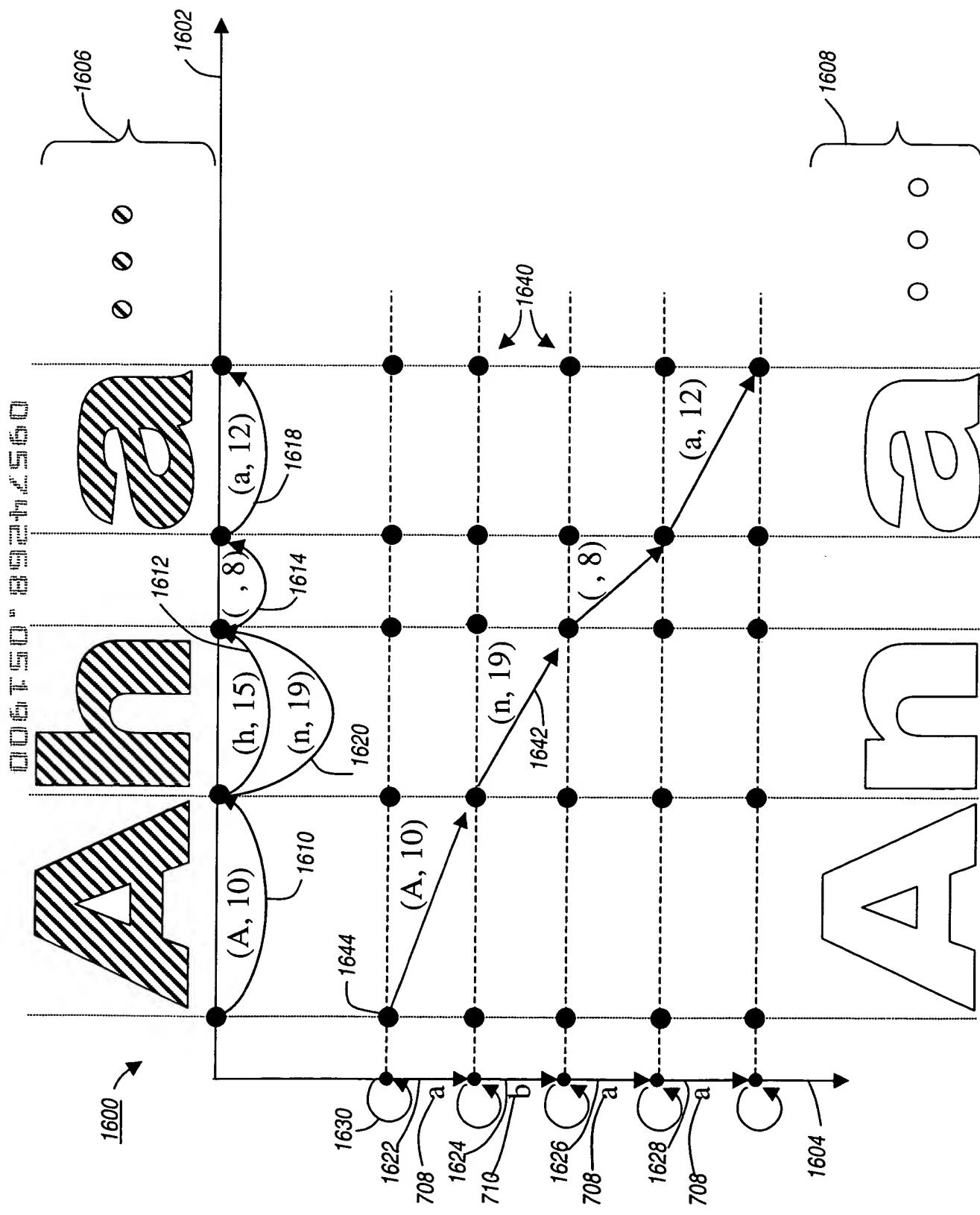


FIG. 15

FIG. 16



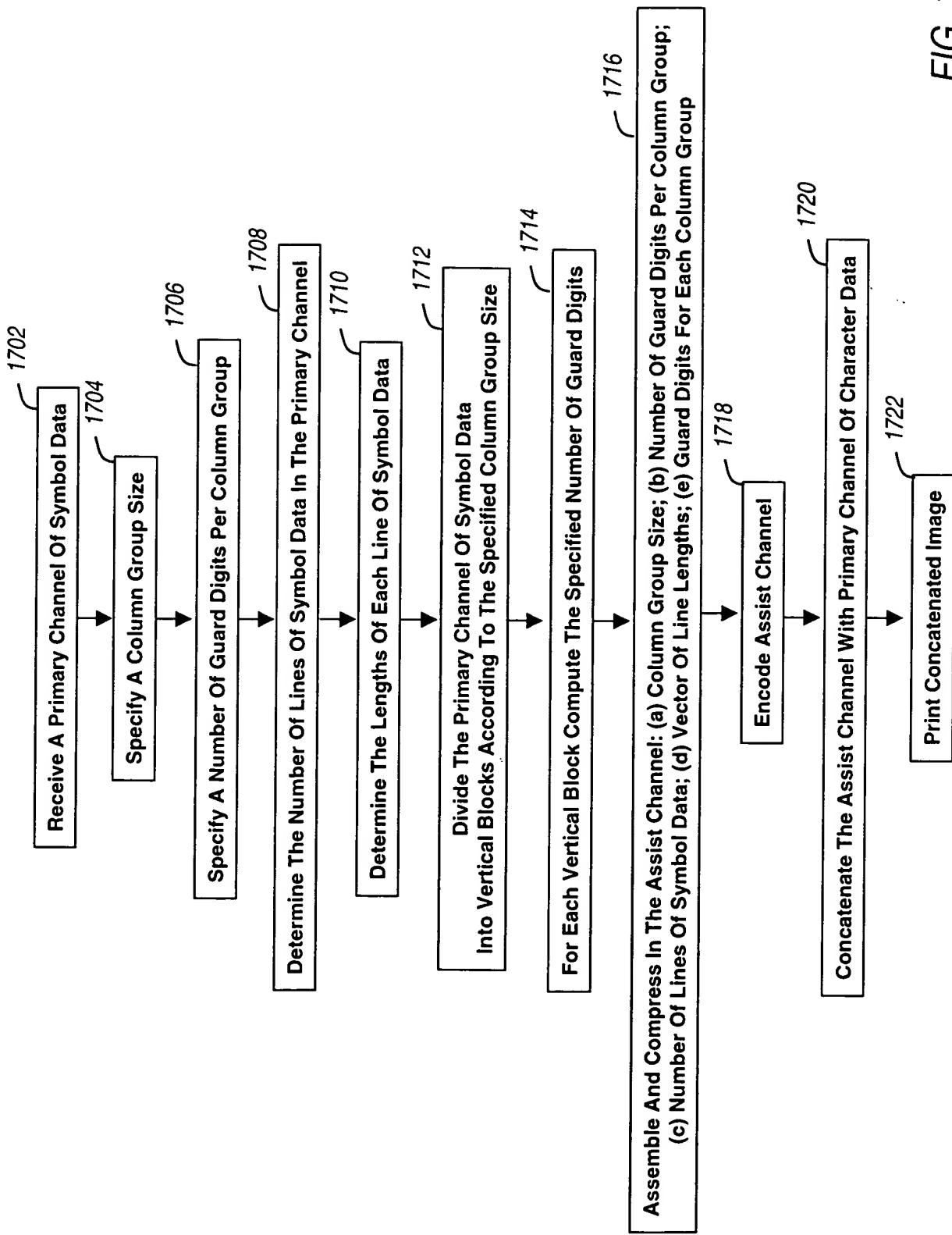


FIG. 17

1800

This is the first line of text  
 followed by many  
<sup>1802</sup>  
 more lines of text.

FIG. 18

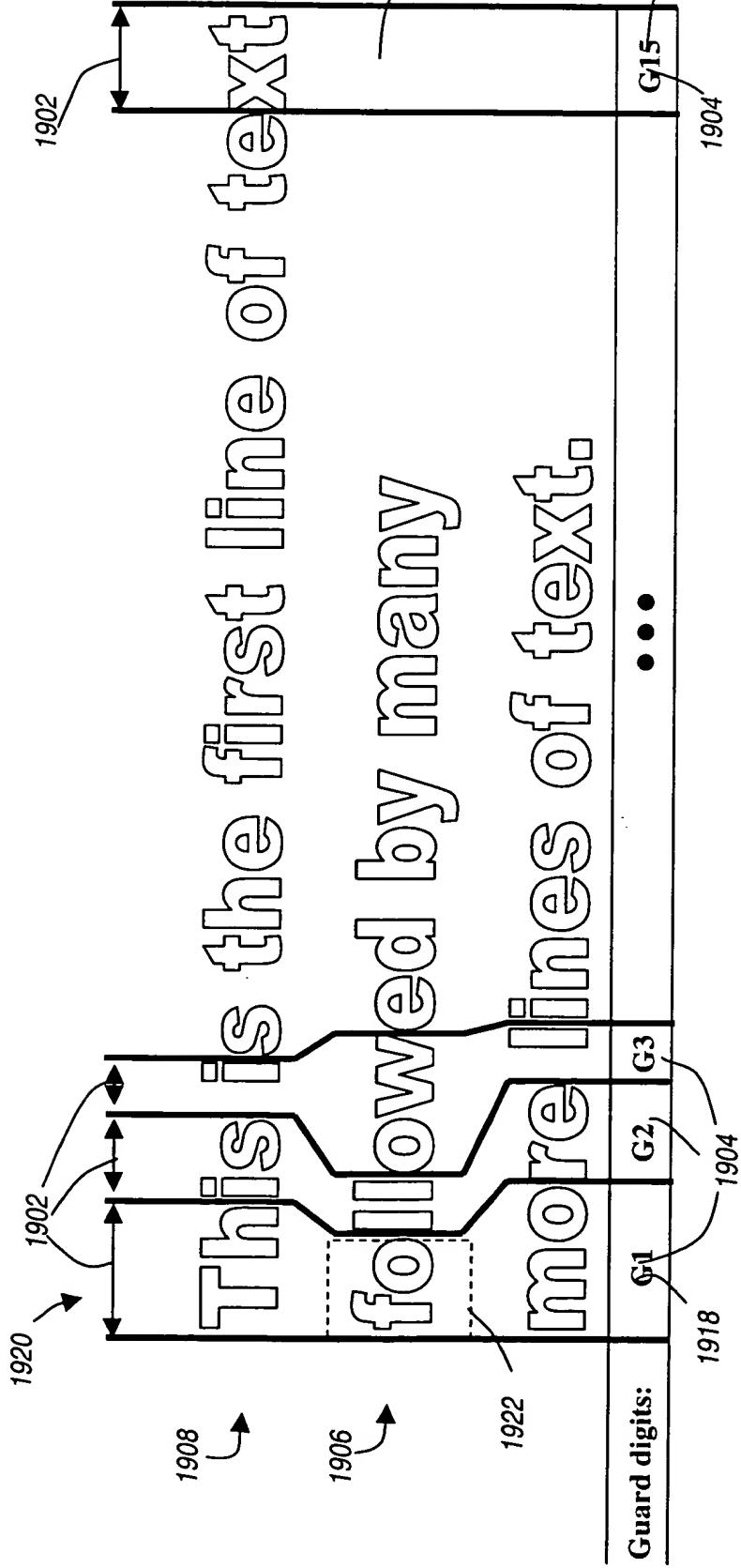


FIG. 19

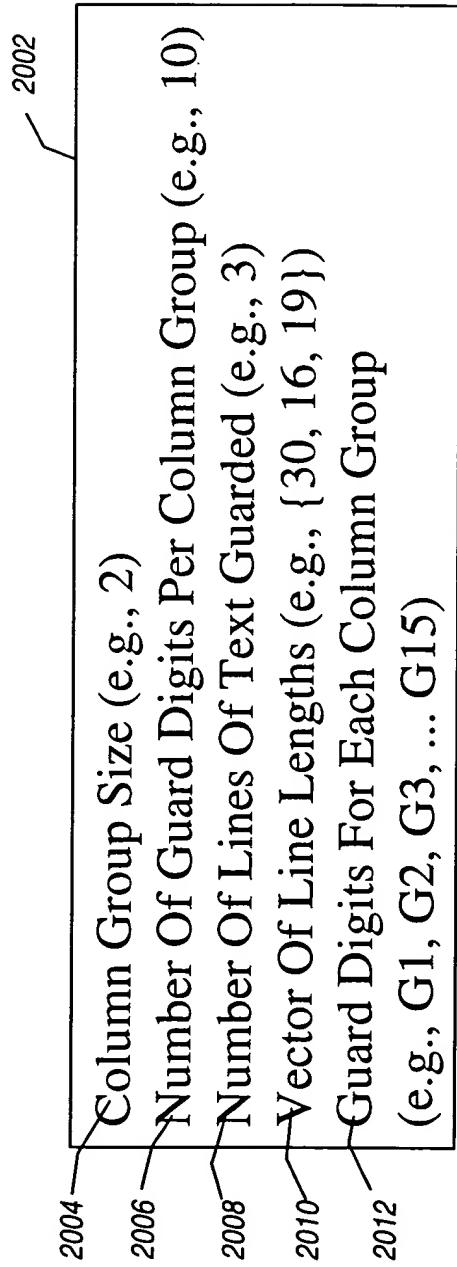


FIG. 20

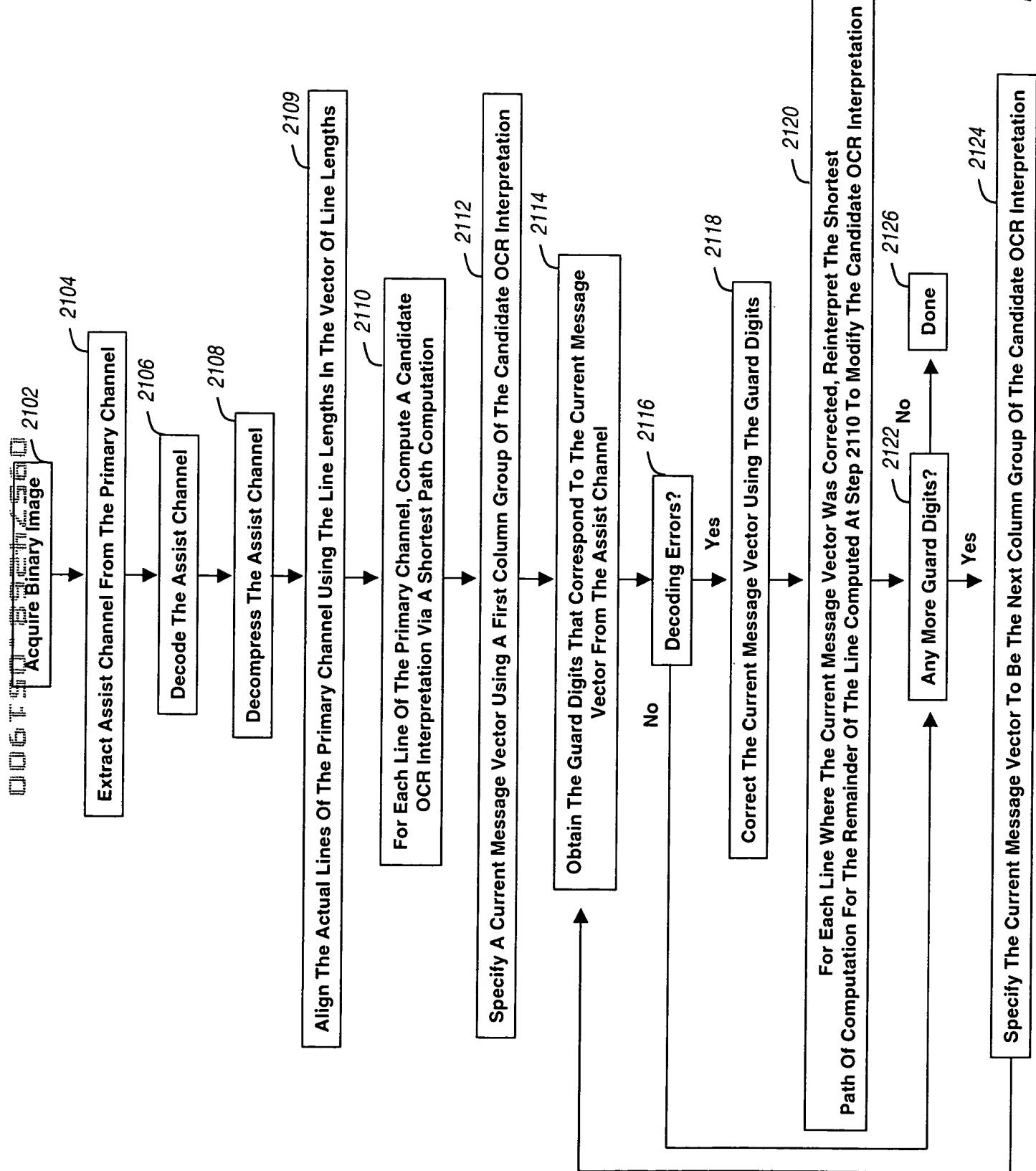


FIG. 22

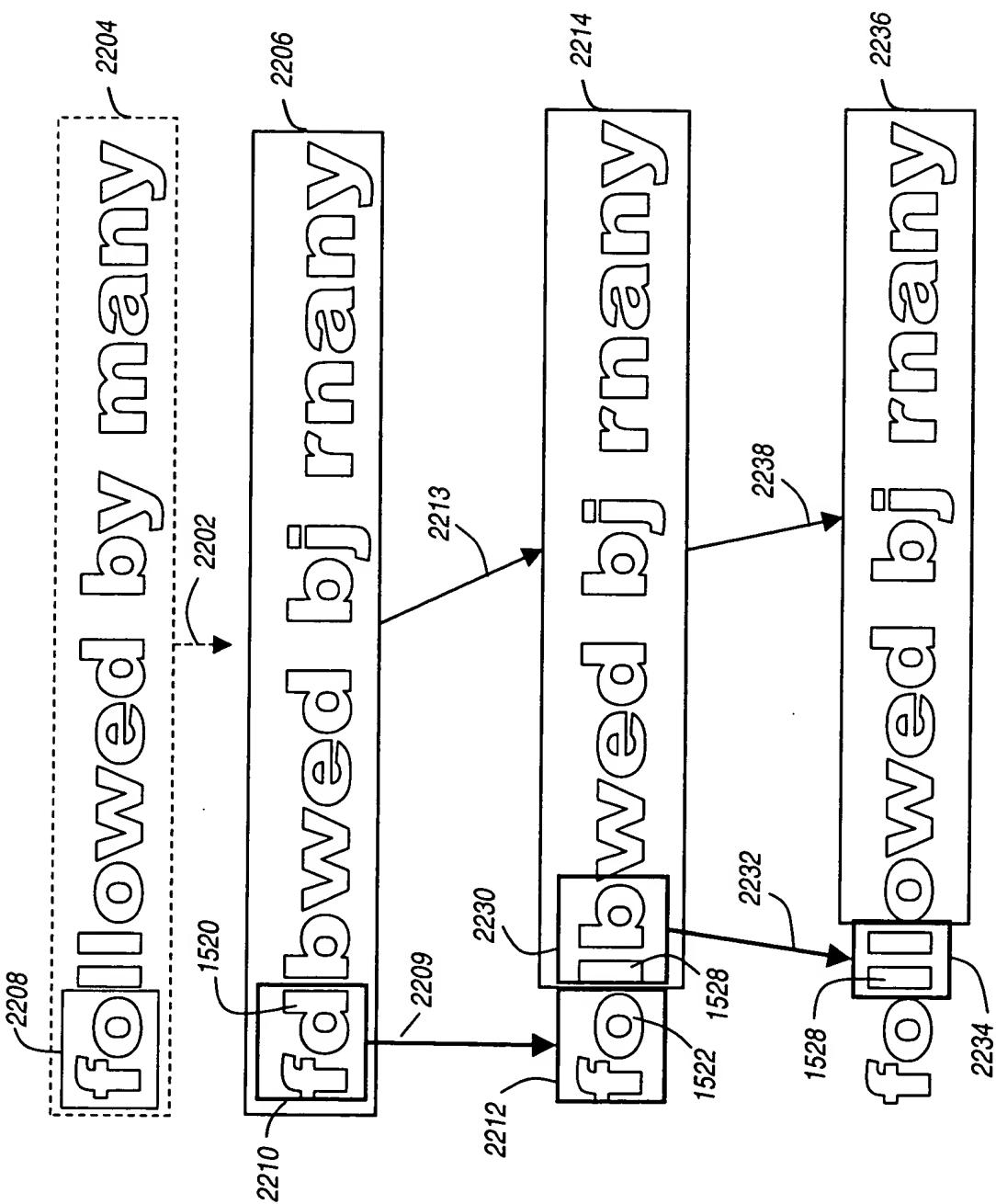
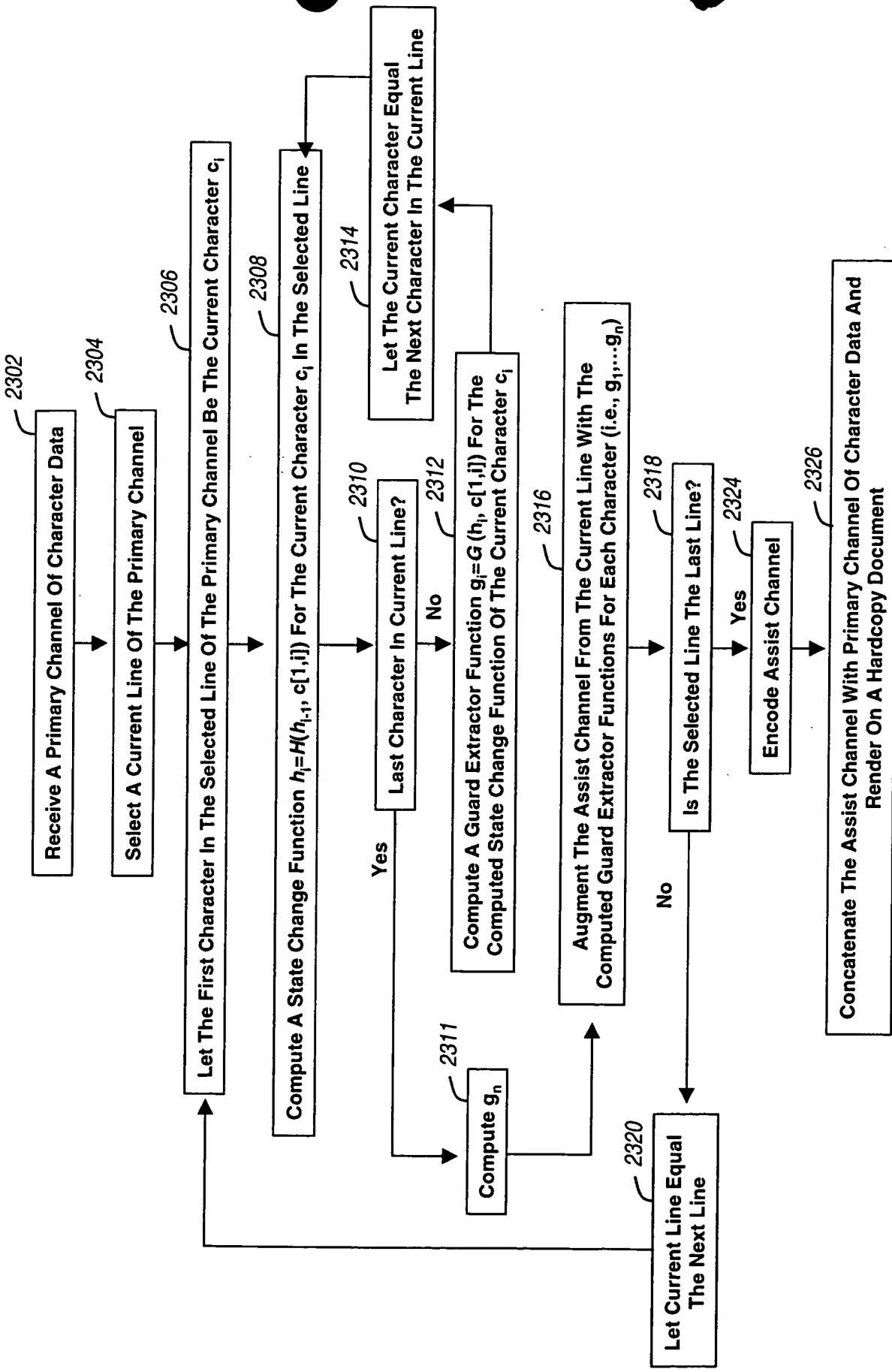


FIG. 23



T  
 h  
 i  
 S

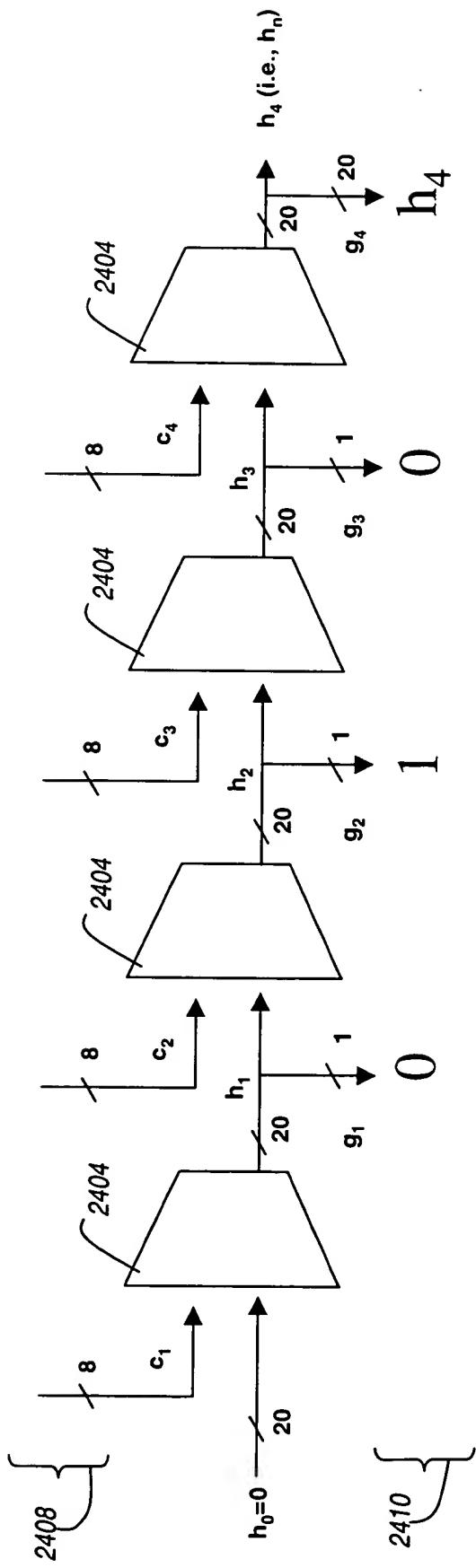


FIG. 24

F/G. 25

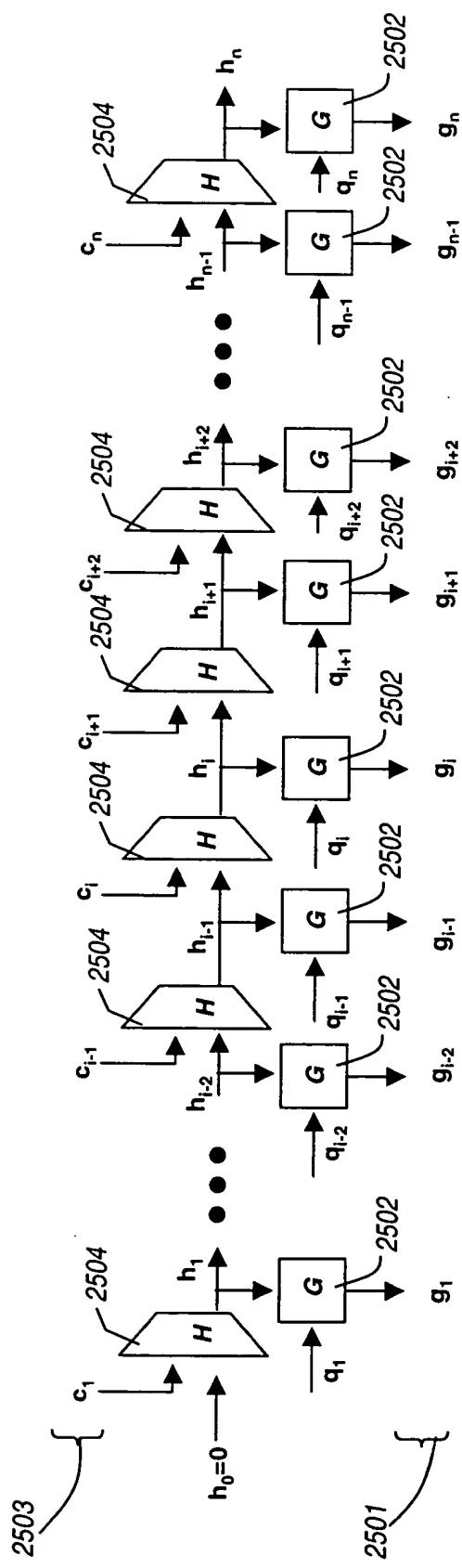
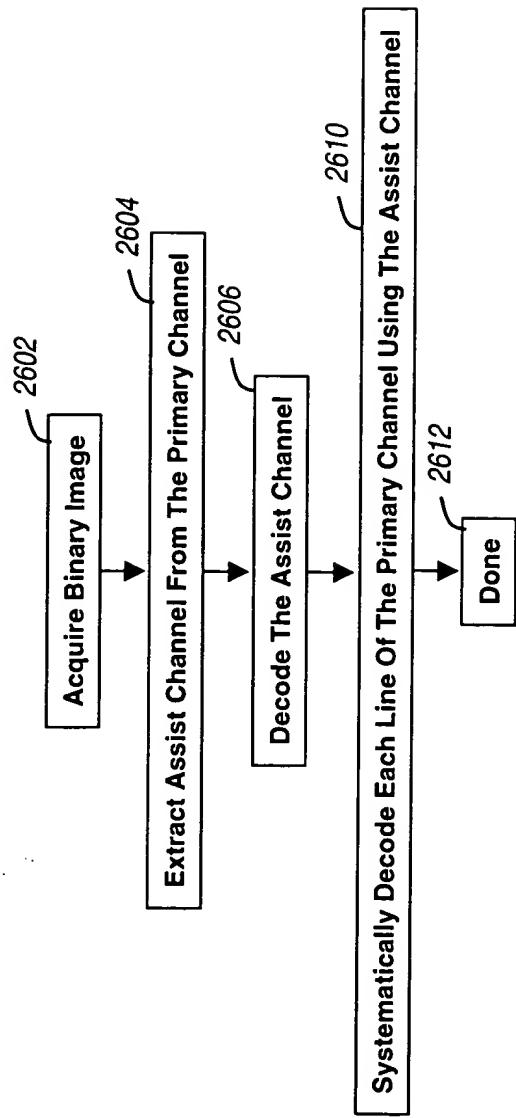


FIG. 26



2608

**Initialize A Priority Queue With An Empty Candidate  $C_0 = (c' = \emptyset, h' = 0, s' = 0, k' = 0)$  For The Current Line Of The Primary Channel**

2610

**Remove From The Priority Queue The Candidate With The Best Score And Define It To Be The Current Candidate " $C_{best}$ ", Where  $C_{best}$ 's Interpretation of the Prefix of the Line Is  $c' = c'_1 c'_2 c'_3 \dots c'_{i-1}$ ; Let  $h'_{i-1}$  Be the Current Hash, Let  $s'_{i-1}$  Be the Current Score, And Let  $k'_{i-1}$  Be the Location Of The First Unmatched Guard Digit In The Assist Channel**

2704

**Identify All Extension Characters  $c'_i$  Of The Current Candidate  $C_{best}$  And For Each Possible Extension Character Score Against It The Remaining Portion Of The Current Line Of The Primary Channel, Obtaining A New Score  $s'_i = s'_{i-1} + S(c'_i)$ .**

2708

**Compute Values For The State Change Function  $h'_i = H(h'_{i-1}, c'[1:i])$  And The Guard Extractor Function  $g'_i = G(h'_i, c'[1:i])$  For Each Of The Identified Extension Characters  $c'_i$**

2710

**Add To The Priority Queue Candidates  $C_{next} = (c' = c'_1 c'_2 c'_3 \dots c'_i, h'_i, s'_i, k'_i)$  For All Identified Extension Characters  $c'_i$  That Have A Computed Guard Value  $g'_i$  That Equals The Guard Value In The Assist Channel (i.e.,  $g_i$ ) Beginning At Position  $k'_i$**

2712

No → 2714

**End of Line? (i.e., Does  $g'_i = g_n$ ?)**

Yes → 2716

**Advance To Next Line Spacing**

2718

No

**All Lines Processed?**

Yes

2612

**Done**

FIG. 27

□□□□□□□□□□□□□□□□

T h i S

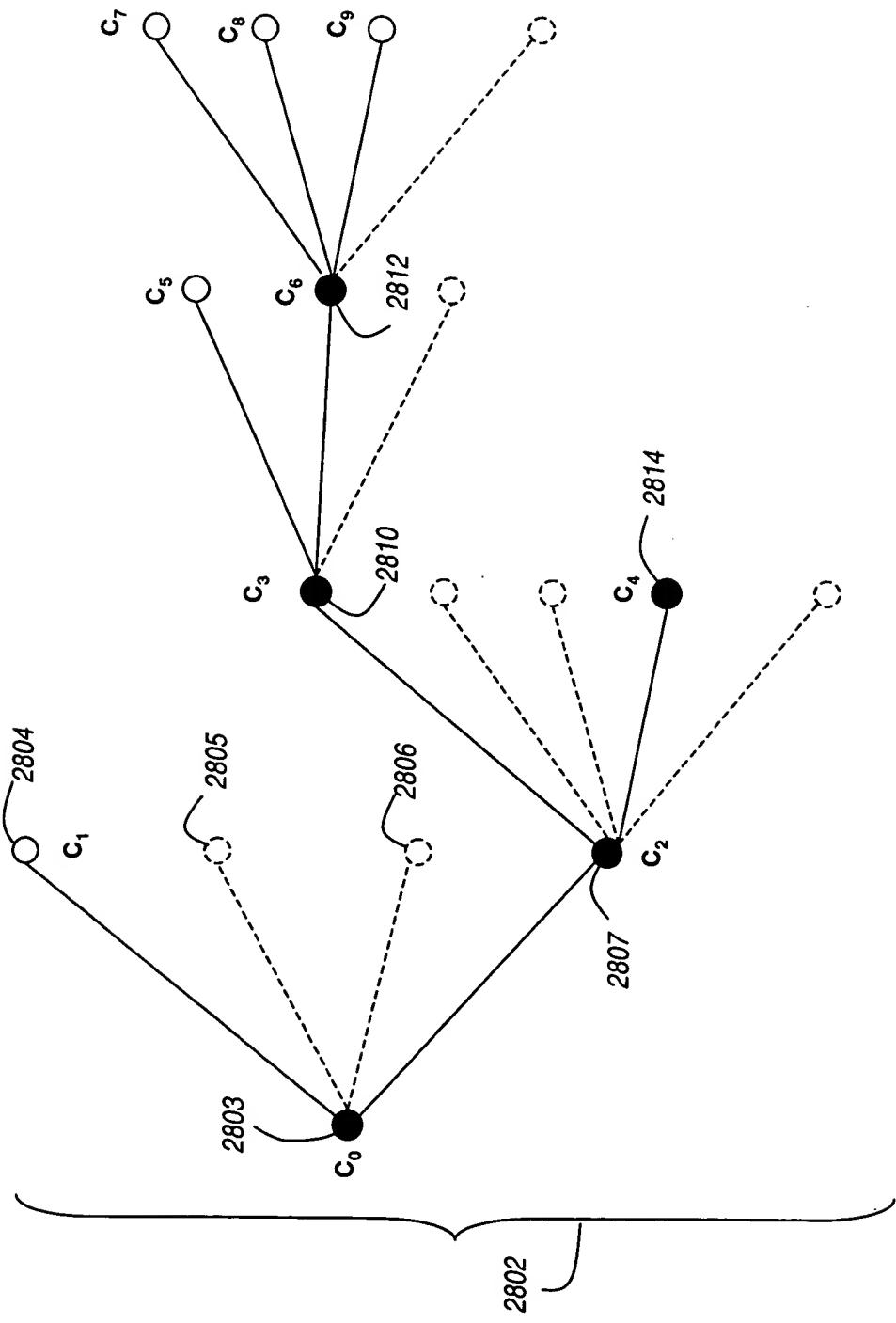


FIG. 28

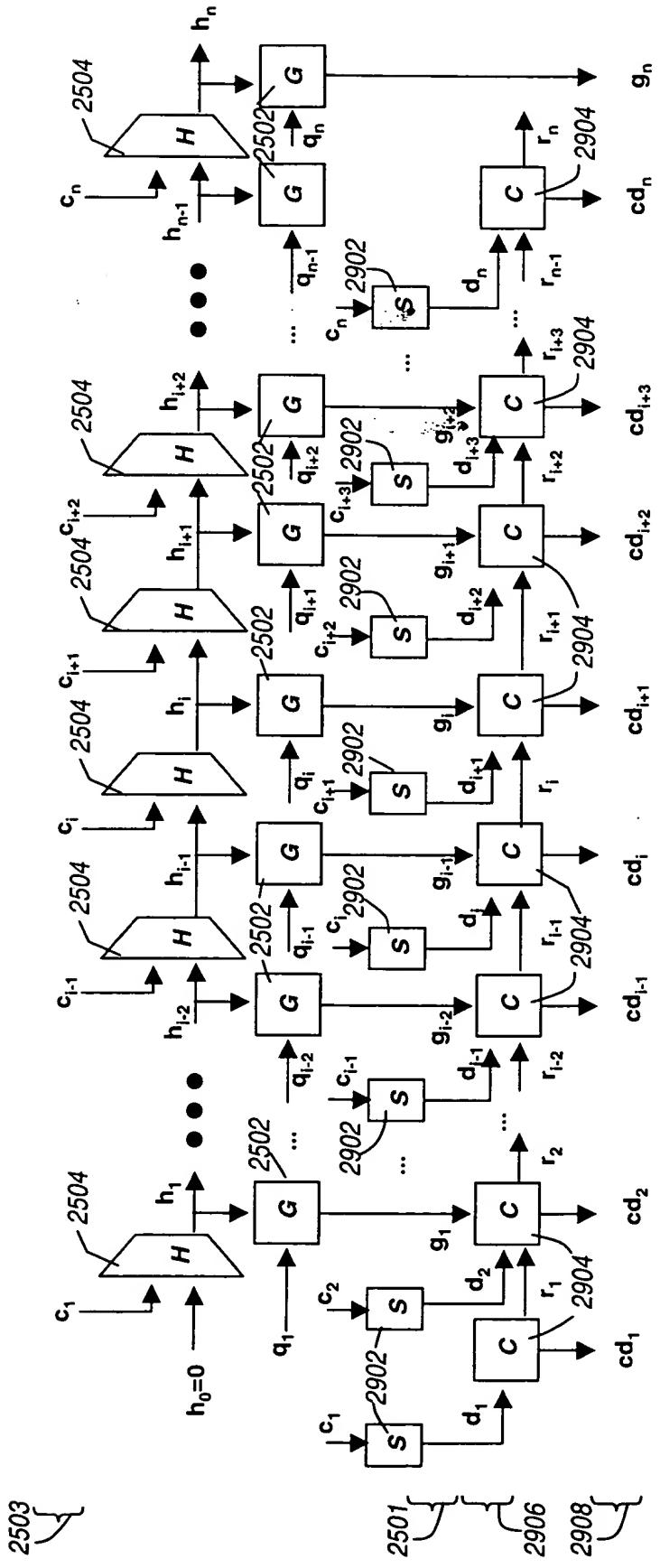


FIG. 29

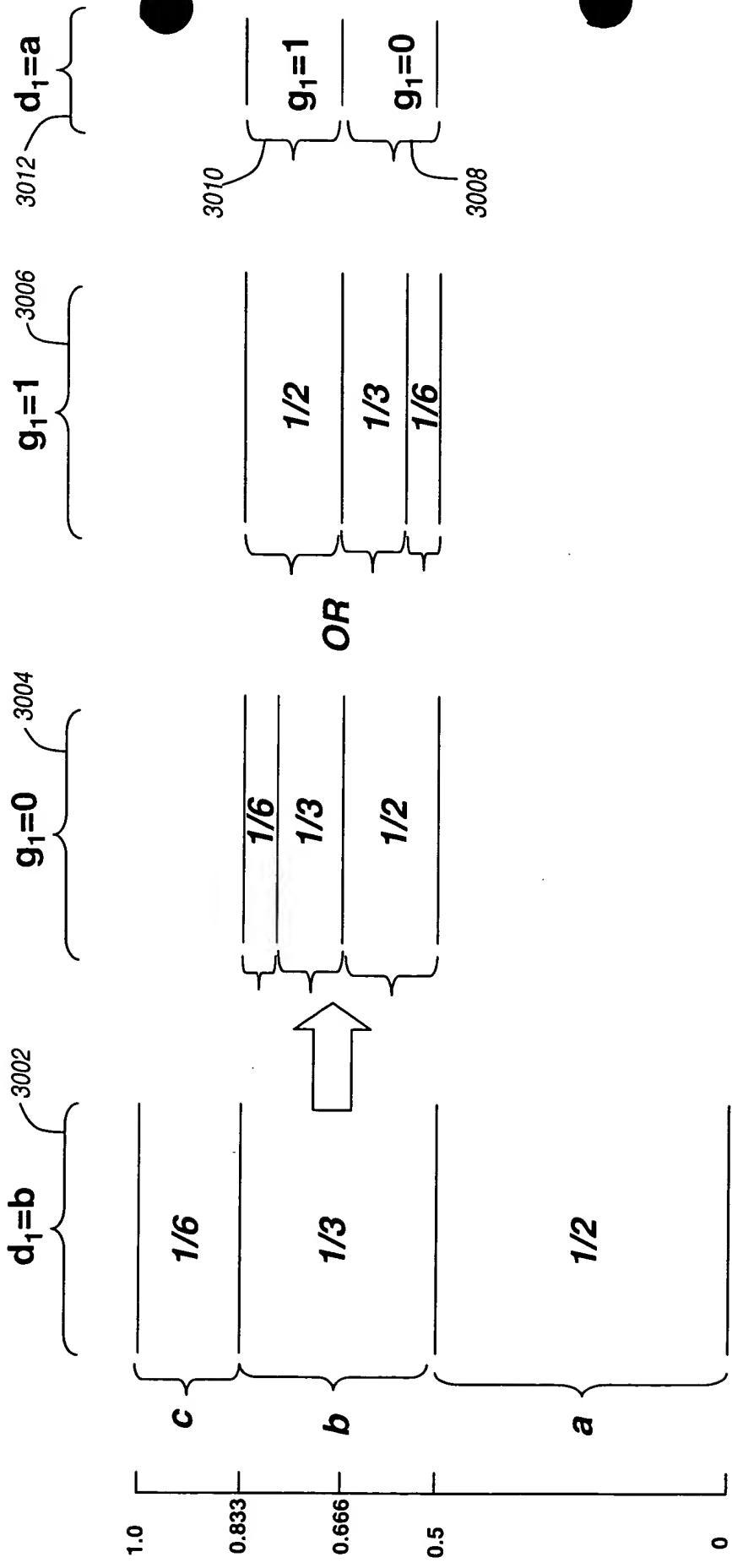


FIG. 30

2610

3102

**Initialize A Priority Queue With  
An Empty Candidate  $C_0 = (c' = \emptyset, h' = 0, r' = 0, s' = 0)$   
For The Current Line Of The Primary Channel**

3104

**Remove From The Priority Queue The Candidate With The Best Score And Define It To Be The Current Candidate " $C_{best}$ ",  
Where  $C_{best}$ 's Interpretation of the Prefix of the Line Is  $c' = c'_1 c'_2 c'_3 \dots c'_{i-1}$ ;  
Let  $h_{i-1}$ ' Be the Current Hash, Let  $s_{i-1}$ ' Be the Current Score, And Let  $r_{i-1}$ ' Be The Current State Of The Compressor**

3106

**Using  $r_{i-1}$ ',  $g_{i-1}$ ', and  $cd_i$  Decompress  $d_i$ ' From The Assist Channel ( $d_i$ ' Is The Separation Class For The Next Character), And Compute  $r'_i$**

3108

**Identify All Extension Characters  $c'_i$  Of  $C_{best}$ , Where  $c'_i$  Is In The Separation Class  $d_i$ ', And For Each Possible Extension Character  
Score It Against The Remaining Portion Of The Current Line Of The Primary Channel, Obtaining A New Score  $s'_i = s_{i-1}' + S(c'_i)$**

**Compute Values For The State Change Function  $h'_i = H(h_{i-1}, c'[1:i])$  And The Guard Extractor Function  
 $g'_i = G(h'_i, c[1:i])$  For Each Of The Identified Extension Characters  $c'_i$**

3110

**Add To The Priority Queue Candidates  $C_{next} = (c' = c'_1 c'_2 c'_3 \dots c'_i, h'_i, r'_i, s'_i)$  For All Identified Extension Characters  $c'_i$**

3112

No → 3114

**End of Line? (i.e., Does  $g_i' = g_n$ ?)**

Yes → 3116

**Advance To Next Line Spacing**

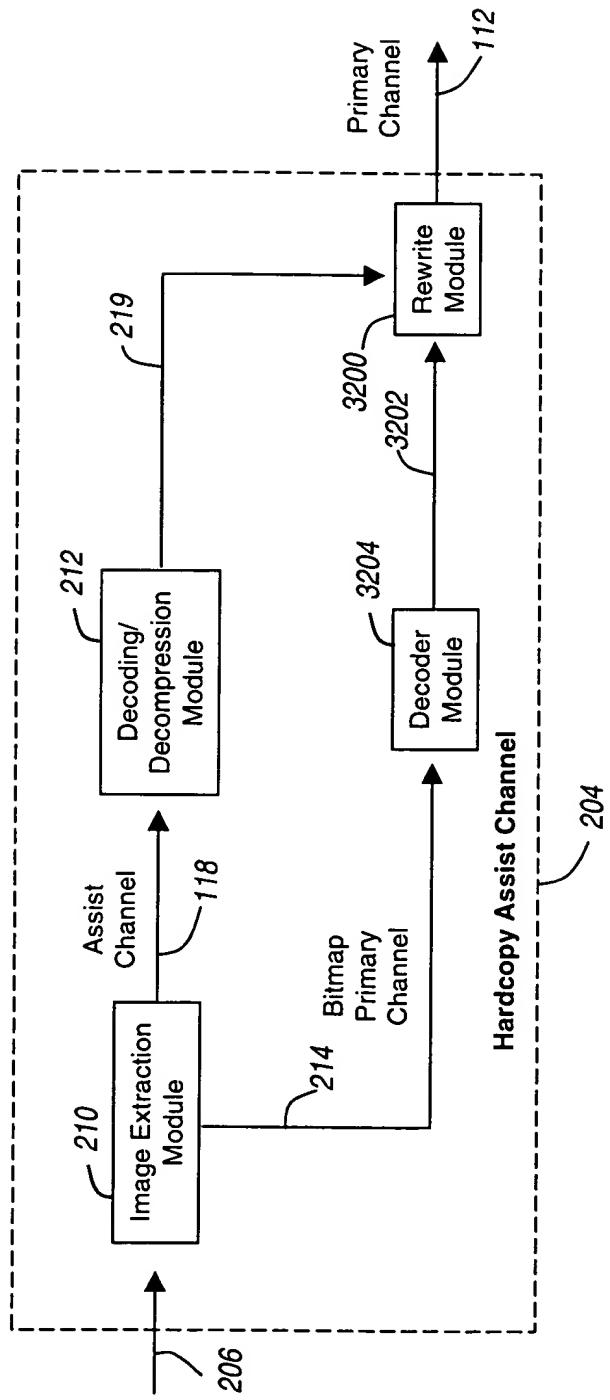
Yes

→ 2612

**Done**

**FIG. 31**

FIG. 32



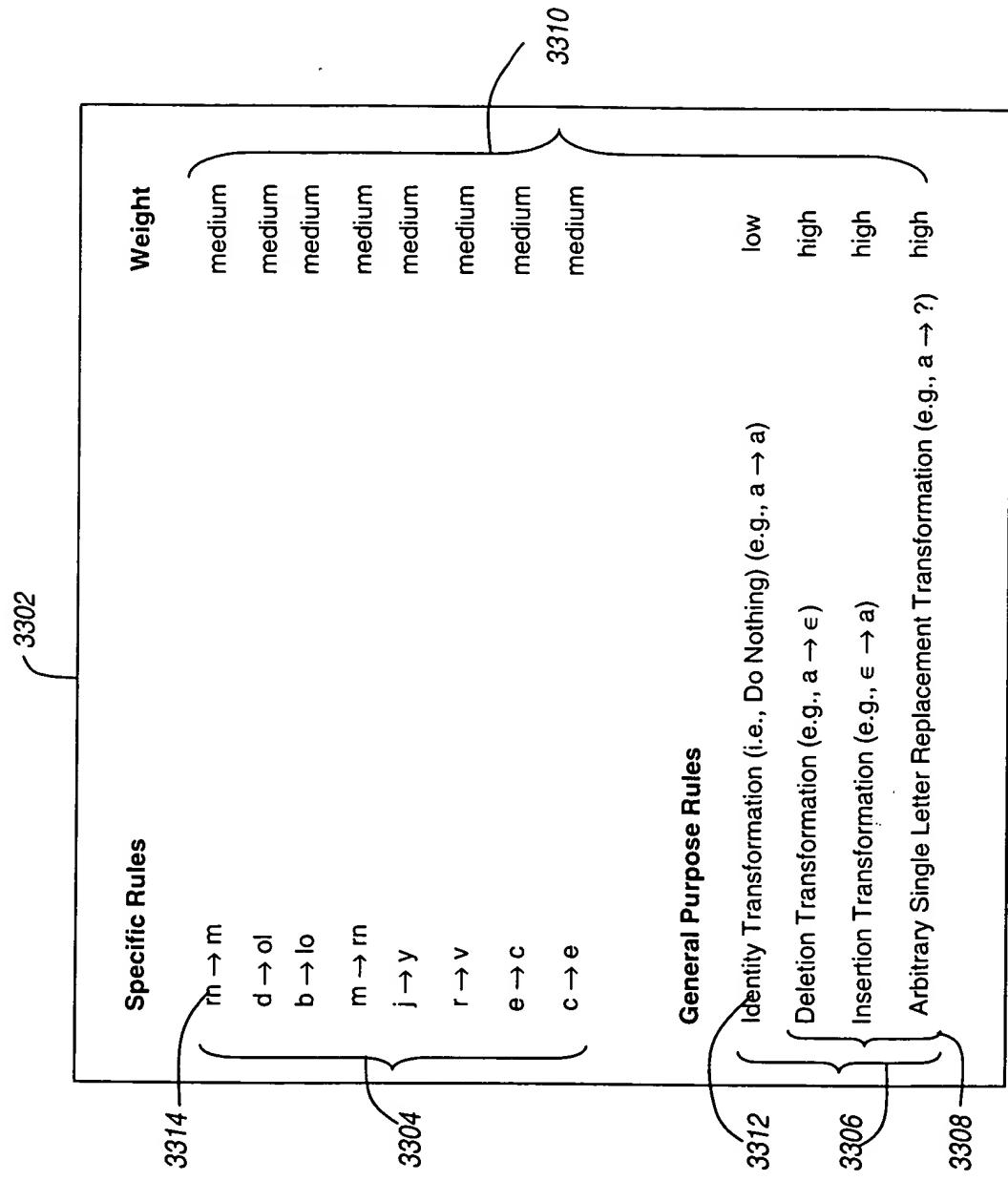


FIG. 33

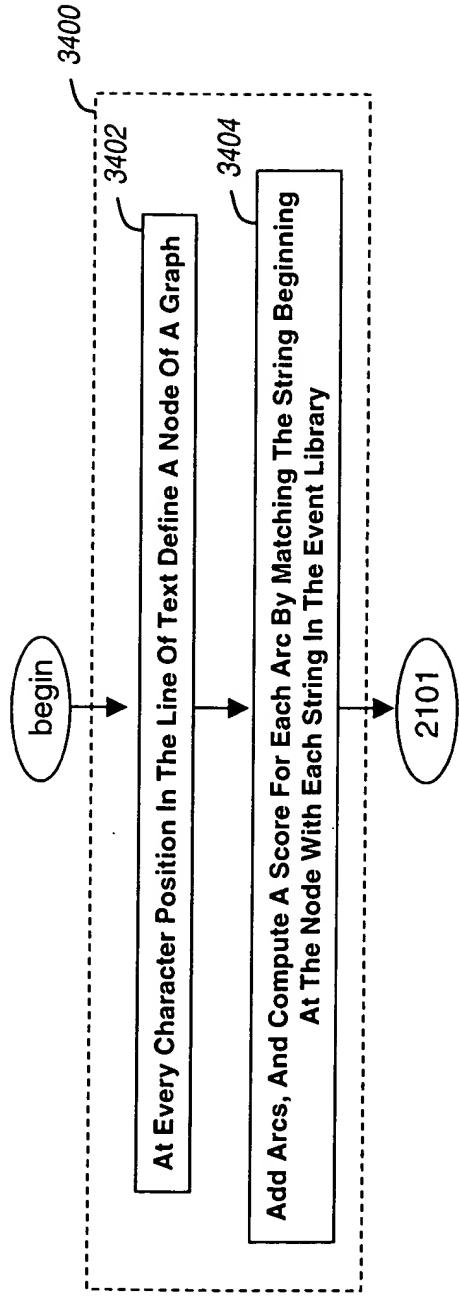


FIG. 34

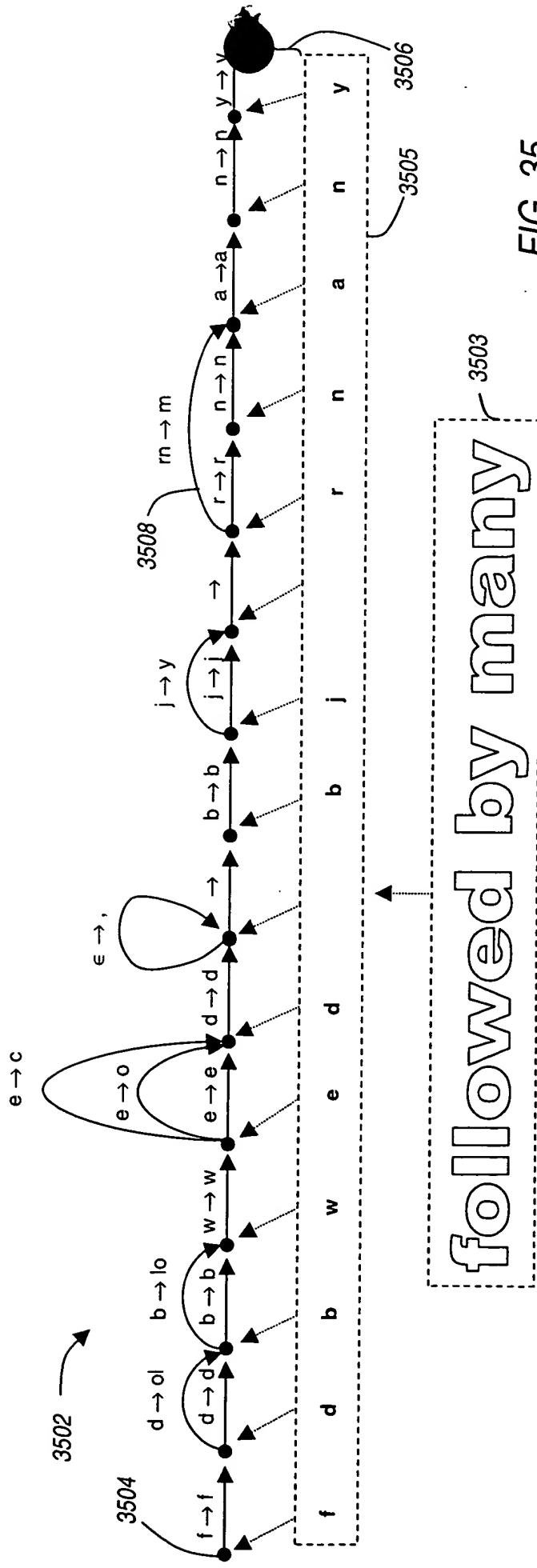


FIG. 36

